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The root of tent: 2 to 1 Wille

Cd Grant : Operational Systems

This is a real resident to a map that Activity: #1.25 a forie Programm

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Number	143.16	WY Trips	F7 1 97.7	7 1 777	47 Jugar	FY 1779	Additional	- 1 + 4 1 - 1
		<u>Aetunl</u>	Actual	Part Emartic	<u>Pstimate</u>	Estimate	<u>to Completion</u>	
	e TAL FOR I REMAIL ED THELL	16,431	4,836	*** ** * * * * * * * * * * * * * * * * *	27,600	25,400	Continuity	• • •

For In Distriction of ELEMENT: The Definite Support is now (No.) in the key element of the Worldwide Military in and and district System (WMRCCC). The evaluation of two depletions of satellites and two dedicated pround read at statl no

BASIS FOR FY 1 178 APTAF ARGUET: their request includes funds for exclutionary improvement and development of the satellite system in copport of his organizations.

Another area is testing of the prototype simplified processing status of hardware and software. Povel proof of payload modifications of a smoothliftity with chattle/TITAN (II/) professor of these is initiated.

MACIO FOR HELEADE IN 1 43 office increase is attributable to the initiation of shuttle/litan is distributed to the initiation of shuttle/litan is distributed upon stage compatibility developent.



From the remains: $\frac{d}{dt} \left(\frac{1}{2} \frac{h}{dt} \right)$. Categories: Operational Lyptons

Fitter to the control of the control o

TREATIED MACKIESUMS ASPROPRIATED AT the before appeal for our above

10. One Dollogia Command Authorities (NCA) and

other designated users.

The Joint Chiefs of Statt (JCS) have deciranted the Aerospace Defense Command (ADOM), Strategic Air School (SAC), National Military Command System (NMCS), Atlantic Command (FASM), Facilia Command (FASM), Margor Command (EURCOM)

And upers of full fate.

Evolutionary system improvements are intended to probably the anotal life of each satellite, make the satellite more survivable

ingrense the viewing area of each satillity, self-increase the accuracy of data is vided for the NGA decision gaking process.

RELATED ACTIVITIES:

Potence

provides launch support. Space Vehicle Subsystem Advanced Sevelopment (63901F) is developing technology for improved reaction wheels. The Satisfied Emergency Airborne Command Last (1881SF) and Esst-Attack Command and Control System (11312F) are potential upers of DSP data. DDF is the key element of the Worldwide Malibury Command and Control System (WMMCCS)

The first of the state of the s

Work IEr Fortied BY: CIRCAP maintains operational content of the first the Joanna chards of Chaff. A first operand technical management responsibilities have been deterated to the SCAF Aerospace Persone Communit (A) of a and Force Logistics Command (AFEC) provides engineering and technics support. Air baree Systems Communit. The and Missile Systems Organization (CAMCO), Los Angeles, CA, Law overall development and province of renework responsibility. Air Force Wengons Intervery, Kirtland AFE, MM, will provide facility support. The Air responsibility. Air Force Wengons Intervery, Kirtland AFE, MM, participated in test and evaluation of selected according segments. The Market CA, is the prime contractor of the spacecraft and satisfie interval in the force for the systems Company (AECC), Az was, CA, is the prime contractor of the spacecraft and satisfie interval in the Aerospan (AECC), Az was, CA, is the prime contractor of the User Display and Interval and Communications segments. The Martin Company, Denver, CO, provides the TITAN IIIC bester. The Energy Force of and Levelopment Agency (Sandia Corporation)

Thousand Caks, CA, is the prime contractor for all software offerts. If M, Thousand Caks, CA, and TM, Fed of Feach, CA, are teamed on the Cimplified Processing Station, with 15M as prime. The Aerospace corporation, Parley d. CA, Turnisles general systems engineering/technical direction to the PSE System Program Office.

THEREAD ACCOMPLISHMENTS AND FORTHER THORIZANS:

1. F7 1776/TQ and Prior Accomplishments: Significant accomplishments to date include procurement of 13 satellites and 12 TITAH IIIC boosters, construction of two data processing facilities, and provision of user displays, a time, communications and a training facility (also used for software development and mission data analysis), or plat in of Research and Development (MSD) for modifications to satellites 10-12 to improve survivability and to provide data curvivability, completion of MSD for an improved focal plane for satellite is and initiation of development of hardware and software for the Simplefied Processing Station (SIS).

was initiated to provide increased viewing area and more accurate data fications for satellite retrofit to improve survivability

DSP augmentation was completed.

In FY 76, sensor devel great

Development of sadiwas intrinted. RMD super for

Program Element: # 1.551F

with the energy property of the property of the first property of

Caterery: Operational Systems

8. BY 1977 Program: Expenditures include ententive development of the tree expressed terms of the provide last the viewing area.

physhod/shuttle magazinility studies; saterill of divide in devet preafit magazine survivarility and increased data convivability; satismed evolutes and advantage devet preafit is a Simplified Processing Station (deliver, in Jun 78); completion of an end station additional use completion of Satellite and kins Det Desining Equipment as convenent; and analysis of orbital data.

4. FY 1978 Planned Leaguage: The major part of the FY YM funds will be applied to summar development and , or for smuttle/TITAN UT/Interim Upper Stage (1889) compatibility development. Fixed proof of the improved sense outplies completed, t

The improved capability will be reto fitted on matellited court atty in the storage inventory and will is incorporated on all new satellite producements. Intensive development of shuttle/paytond courtibility is little to is initiated for inclusion on matellite th, produced in FY 80. Funds to incore TUAN In/100 compatibility to the satellite retoutit program are included. Improved spacecraft data transmission capability development is initiated to incorporate state-of-the-art technology and increase reliability. Funding for the Cimplified Processing Station Initial Operational Test and Evaluation, operation/Maintenance demonstration and engineering compact address of through FY 18. Catellite improvement studies and analysis of data suffered true of the operations will engineering.

- 4. FY 197 flanned Frogram: Hans include a ntinued development of paylond/shuttle/still/40S modifications; and pletion of improvement studies; and paylond analysis of orbital operations data.
- 5. Program to Completion: This is a centinuing program. AFFEE funding will support estimate evolutionary match the development in support of DOD requirements. Primary emphasis will be directed toward eliminating or minimizing meticiencies discovered during operational employment and development of the capability to use the space shuttle engine. THII/IBS in lieu of the TITAN HIC beauter.

6. <u>Milestones</u> :		<u>late</u>	Estimated Cumulative object Cost to Leach Milestones († in Thomsonis)		
Α.			360,200		
B. C.	•	-	375,80)		
D. Delivery of Satellite #5			382,100		
		Mer 13	302,000		
E			307,200		
		CEO			

Exception	Elemen	1:	$\hat{\eta} = 1$	3: 1	!	
Sate.	11117	Otto	rat	LONG	ī	tiost emit

Subject to the complete region to The former terms of the former.

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7. 11. 1. 1.	ielivery Ielivery	of Catellia $\#$ of Catellia $\#_t$ of Catellia $\#_t$				Line y Mary Mark Mark	74 74		10
11. 11. (4.	Telivery	of Patellite #1	earlified		ge Pratica	Hov Jun Bur	7.		511,400 545,400 900,000 504,00
7	LEMOURCES	: († in Thousa	nda)						
								Additional	Istal Estimated
			<u> </u>	FY 1919	FY 1977	FY 1 1714	FY 1 770	Completian	Cust
RDTS		ities (H/A)	10.4651	5,816	No. of the second	$P_{T,t}(z)$	27,50	Continuine	11/A
Hisa	sile Frocu	rement:							
			39,500	ર,∄(π)	25,100	96,400 }	171,50	Continging	7/A
Othe	r Frocure	ment:		,					٠.
	ନ୍ଧାୟା	is:* ntities	12,780	7	10,878	2,436	33,990	Continuing	N/A
Mili		PS truction Funds					1,000	Continuing Continuing	II/A II/A

^{*}Includes initial spares.

Trogram Element: #12431F Category: Operational Systems

Arther Determe support Program (DSP) Budget Activity. #3 Strategie Programs.

lest had tached for face

- 4. Nevel (ment Test and Exclustion: the resonne Lappert Learns at an operational system on which level (mas) Test and Evaluation/Initial Operational Sect and Evaluations (Second Core) but teen completed. Well were storetional Test and Evaluation (Popull) is the temporalibility of the specific command (Aerospace Defense Screwelle. All discrepancies and deficiencies and reced to date have been remote discrepancies and deficiencies and reced to date have been remote discrepancies. by Agrospace Defence Command (Aparts) and Air Force Systems Command (Aparts). Mintainebility and reliability. terting of the system were a industrial by AEAS during system development and continue to be a subseted by the system operator.
- 2. Operational Post and Evaluation: Comment Air Force Post and Evaluation Center (AFGEC) Lection activity to the PSP is limited to the combined test is gramm (DTVE/CISE) of the Significand Processing Station (SES). The combined test present of the post appeals is scheduled to to in is not der 1977 and to suspice d by May 1 0%. The tests will be conducted at 180, the prime contractor; BWL, the internating contract of AF Weapons table of the at Kirtland AFB, BM; and at Vandenter, AFB, CA. Testing of the probable at Vandesberg AFB will include of the of actual (c. t.simulated) - permittens. An APTEC test team compared of personnel form AFTEC, ADTOM, Air Morre Togristics Command (AFLC), Air Truining Command (ATC), Stadegie Air Command (CAC), Air Force Communications Service (AFTS), U.AF Security Dervice (USAFSS), the INDAR partiam of the test. The purpose of the POTSK is to provide untained associated analysis of the opentional effectiveness, suitability, and military utility of the first post type to assist in a production decision. anticipated for mid to late FY 1977, and to recommend derived than earlie any fill ween production SEC a delc.
- System Characteristics: The ESI Simplified Processing Station (SES) specialized profotype contrast has been awarded to a contractor team compensation and TPW. The CPC will be a minimizarized, teamsportable, civils dismanifold, lower cost version of the current large, fixed, deducated this ground stations. It is intended to a too. a backup to current ground stations,

Technical annoyal righter will be

defined during the period of the a notart. We demendented performance the effective are yet symbolic.

